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Terms	Documents
L9 and L8	1

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Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L10

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Search History

DATE: Saturday, February 10, 2007 **Purge Queries** Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=YES; OP=OR			
L10	L9 and l8	1	L10
L9	L7 and (6-dEB)	61	L9
L8	kealey.in.	23	L8
L7	starter unit and (atoAD)	31770	L7
L6	atoC	87	L6
L5	atoAD	0	L5
DB=PGPB; PLUR=YES; OP=OR			
L4	L2 and (atoC)	1	L4
L3	L2 and (atoAD)	1	L3
L2	20040096946	1	L2
DB=USPT; PLUR=YES; OP=OR			
L1	6627427.pn.	1	L1

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 7011959 B1

L10: Entry 1 of 1 File: USPT Mar 14, 2006

US-PAT-NO: 7011959
DOCUMENT-IDENTIFIER: US 7011959 B1

TITLE: Heterologous production of polyketides

DATE-ISSUED: March 14, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Santi; Daniel	San Francisco	CA		US
Peck; Larry	San Carlos	CA		US
Dayem; Linda	Belmont	CA		US
Kealey; James	San Rafael	CA		US

US-CL-CURRENT: 435/76; 435/252.33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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Terms	Documents
L9 and L8	1

Display Format: CIT Change Format

Previous Page Next Page Go to Doc#

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FILE 'HOME' ENTERED AT 15:26:39 ON 10 FEB 2007

=> file medline, biosis

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 15:27:08 ON 10 FEB 2007

FILE 'BIOSIS' ENTERED AT 15:27:08 ON 10 FEB 2007
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=> s (6-dEB) and (atoAD)
L1 2 (6-DEB) AND (ATOAD)

=> d l1 ti abs ibib tot

L1 ANSWER 1 OF 2 MEDLINE on STN
TI 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.
AB The erythromycin precursor polyketide 6-deoxyerythronolide B (6-dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coli cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15-methyl-6-dEB. Priming DEBS with endogenous butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method [Jacobsen, J. R., et al. (1997) Science 277, 367-369], which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here demonstrates the utility of metabolic engineering in E. coli to introduce precursor pathways for the production of novel polyketides.
ACCESSION NUMBER: 2003565219 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14640703
TITLE: 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.
AUTHOR: Kennedy Jonathan; Murli Sumati; Kealey James T
CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward, California 94545, USA.
SOURCE: Biochemistry, (2003 Dec 9) Vol. 42, No. 48, pp. 14342-8. Journal code: 0370623. ISSN: 0006-2960.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200403
ENTRY DATE: Entered STN: 16 Dec 2003
Last Updated on STN: 18 Mar 2004
Entered Medline: 17 Mar 2004

L1 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.

AB The erythromycin precursor polyketide 6-deoxyerythronolide B (6-dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coil cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15-methyl-6-dEB. Priming DEBS with endogenous butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method (Jacobsen, J. R., et al. (1997) Science 277, 367-369), which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here demonstrates the utility of metabolic engineering in E. coli to introduce precursor pathways for the production of novel polyketides.

ACCESSION NUMBER: 2004:66331 BIOSIS
DOCUMENT NUMBER: PREV200400067066
TITLE: 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.
AUTHOR(S): Kennedy, Jonathan; Murli, Sumati; Kealey, James T. [Reprint Author]
CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward, CA, 94545, USA
kealey@kosan.com
SOURCE: Biochemistry, (December 9 2003) Vol. 42, No. 48, pp. 14342-14348. print.
ISSN: 0006-2960 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Jan 2004
Last Updated on STN: 28 Jan 2004

```
=> e kealey, j/au
E1            1     KEALEY W DAVID C/AU
E2            1     KEALEY W F/AU
E3            0 --> KEALEY, J/AU
E4            1     KEALHEIM G/AU
E5            1     KEALHOFER CATHERINE/AU
E6            3     KEALHOFER L/AU
E7            1     KEALHOFER L K/AU
E8            4     KEALHOFER LISA/AU
E9            2     KEALIHER A/AU
E10           2     KEALIHER AYNSLEY/AU
E11           7     KEALL A/AU
E12           4     KEALL C L/AU

=> d his

     (FILE 'HOME' ENTERED AT 15:26:39 ON 10 FEB 2007)

     FILE 'MEDLINE, BIOSIS' ENTERED AT 15:27:08 ON 10 FEB 2007
L1             2 S (6-DEB) AND (ATOAD)
                 E KEALEY, J/AU

=> s atoC
L2          50 ATOC
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=> s atoAD
L3            3 ATOAD

=> s l2 and l3
L4            0 L2 AND L3

=> s l2 and polyketide
L5            0 L2 AND POLYKETIDE

=> s l2 and host cell
L6            0 L2 AND HOST CELL

=> d l3 ti abs ibib tot

L3   ANSWER 1 OF 3     MEDLINE on STN
TI   6-Deoxyerythronolide B analogue production in Escherichia coli through
     metabolic pathway engineering.
AB   The erythromycin precursor polyketide 6-deoxyerythronolide B (6-dEB) is
     produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-
     CoA extender units.  In vitro studies have previously demonstrated that
     the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits
     relaxed substrate specificity and is able to accept butyryl-CoA, leading
     to the production of polyketides with butyrate starter units.  We have
     shown that we can produce butyryl-CoA at levels of up to 50% of the total
     CoA pool in Escherichia coli cells that overexpress the
     acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in
     media supplemented with butyrate.  The DEBS polyketide synthase (PKS) used
     butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD
     and methylmalonyl-CoA mutase pathways, respectively, to produce
     15-methyl-6-dEB.  Priming DEBS with endogenous butyryl-CoA affords an
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     chemobiosynthesis method [Jacobsen, J.  R., et al. (1997) Science 277,
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     of metabolic engineering in E. coli to introduce precursor pathways for
     the production of novel polyketides.
ACCESSION NUMBER:    2003565219     MEDLINE
DOCUMENT NUMBER:     PubMed ID: 14640703
TITLE:               6-Deoxyerythronolide B analogue production in Escherichia
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AUTHOR:              Kennedy Jonathan; Murli Sumati; Kealey James T
CORPORATE SOURCE:    Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward,
                     California 94545, USA.
SOURCE:              Biochemistry, (2003 Dec 9) Vol. 42, No. 48, pp. 14342-8.
                     Journal code: 0370623. ISSN: 0006-2960.
PUB. COUNTRY:        United States
DOCUMENT TYPE:       Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:            English
FILE SEGMENT:        Priority Journals
ENTRY MONTH:         200403
ENTRY DATE:          Entered STN: 16 Dec 2003
                     Last Updated on STN: 18 Mar 2004
                     Entered Medline: 17 Mar 2004

L3   ANSWER 2 OF 3  BIOSIS  COPYRIGHT (c) 2007 The Thomson Corporation  on STN
TI   Manipulation of yeast CoA pools: Introduction of pathway for butyryl-CoA
     synthesis.
ACCESSION NUMBER:    2005:484954  BIOSIS
DOCUMENT NUMBER:     PREV200510259209
TITLE:               Manipulation of yeast CoA pools: Introduction of pathway
                     for butyryl-CoA synthesis.
AUTHOR(S):           Lee, K. Michael [Reprint Author]; Kealey, James T.; Da
                     Silva, Nancy A.
```

CORPORATE SOURCE: Univ Calif Irvine, Irvine, CA 92697 USA
kklee@uci.edu
SOURCE: Abstracts of Papers American Chemical Society, (MAR 13 2005) Vol. 229, No. Part 1, pp. U189-U190.
Meeting Info.: 229th National Meeting of the American-Chemical-Society. San Diego, CA, USA. March 13 -17, 2005. Amer Chem Soc.
CODEN: ACSRAL. ISSN: 0065-7727.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 16 Nov 2005
Last Updated on STN: 16 Nov 2005

L3 ANSWER 3 OF 3 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.
AB The erythromycin precursor polyketide 6-deoxyerythronolide B (6-dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coil cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15-methyl-6-dEB. Priming DEBS with endogenous butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method (Jacobsen, J. R., et al. (1997) Science 277, 367-369), which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here demonstrates the utility of metabolic engineering in E. coli to introduce precursor pathways for the production of novel polyketides.
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CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward, CA, 94545, USA
kealey@kosan.com
SOURCE: Biochemistry, (December 9 2003) Vol. 42, No. 48, pp. 14342-14348. print.
ISSN: 0006-2960 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Jan 2004
Last Updated on STN: 28 Jan 2004

=> d his

(FILE 'HOME' ENTERED AT 15:26:39 ON 10 FEB 2007)

FILE 'MEDLINE, BIOSIS' ENTERED AT 15:27:08 ON 10 FEB 2007
L1 2 S (6-DEB) AND (ATOAD)
E KEALEY, J/AU
L2 50 S ATOC
L3 3 S ATOAD
L4 0 S L2 AND L3

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NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS 7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 8	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAplus patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 23	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases

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L5              0 S L2 AND POLYKETIDE
L6              0 S L2 AND HOST CELL

=> s l2 and starter unit
L7              0 L2 AND STARTER UNIT
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